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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,163	08/30/2004	Juergen Schroeder	257542US0PCT	5466
22850	7590	02/02/2006	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EL ARINI, ZEINAB	
			ART UNIT	PAPER NUMBER
			1746	

DATE MAILED: 02/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/505,163	Applicant(s) SCHROEDER ET AL.	
	Examiner Zeinab E. EL-Arini	Art Unit 1746	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The amendment and remarks filed 10/24/06 have been acknowledged and entered.

Claim Rejections - 35 USC § 112

Claims 9, and 11-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 9, lines 2-3, "the basic aqueous solution" lacks antecedent basis. At line 2, "a combination both" is indefinite and confusing term.

In claim 11, line 1, "the polar organic solvent" lacks antecedent basis.

In claim 12, lines 1-2, "the basic aqueous solution" lacks antecedent basis.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 01/51159 A1 (WO'159)(Neutzner et al.).

WO'159 discloses a method for cleaning rectification columns that are used for rectifying (meth) acrylic acid and/ or esters thereof (see page 3, line 12- page 4, line 38, page 6, lines 16-41, and page 10, lines 4-22. The reference discloses the basic liquid (sodium hydroxide) and gas (steam or air) are guided through the column in the counter

current. The reference discloses all limitations with the exception of the pressure difference between the pressure in the gas phase immediately above the uppermost tray of the tray column and the pressure in the gas phase immediately below the lowermost tray of the tray column divided by the number of the trays in the column is at least 0.5 mbar per tray, and the range claimed in claims 2-3, and 6.

It would have been obvious for one of ordinary skill in the art to incorporate these limitation into the method described in WO'159 as a conventional measure for solving the specified problem because it is known to a person skilled in the art that there is a decline in pressure when a gas stream and a liquid are run countercurrent to each other. The selection of a decline in pressure of at least 0.5 mbar per plate could only be regarded as inventive if this pressure decline of at least 0.5 mbar per plate brings about unexpected effects or properties in relation to the rest of the range. Re. the limitation of claim 7, see page 7. Re. the limitations of claims 8-11, see pages 8 and 9. Re. the limitation of claim 12, see page 10.

This rejection stated in paper No. 072205 is maintained.

Response to Arguments

1. Applicant's arguments filed 10/24/05 have been fully considered but they are not persuasive. Applicants' argument with respect to Neutzner et al do not discuss a pressure difference within the stripping column is unpersuasive, because it would have been obvious for one of ordinary skill in the art to incorporate this limitation into the method described in WO'159 as a conventional measure for solving the specified

problem because it is known to a person skilled in the art that there is a decline in pressure when a gas stream and a liquid are run countercurrent to each other. The selection of a decline in pressure of at least 0.5 mbar per plate could only be regarded as inventive if this pressure decline of at least 0.5 mbar per plate brings about unexpected effects or properties in relation to the rest of the range. Effects or properties of this type are not, however shown in the disclosure. This is also because Neutzner et al. disclose that depending on the type of alkaline component and its concentration in the aqueous washing solution, as well as the temperature selected for cleaning, the cleaning can accure at different pressures. See page 11. This is also because one skilled in the art would expect the pressure in the Neutzner et al. will be the same or equivalent to the pressure as claimed, because the process as claimed is equivalent to the process taught by Neutzner et al.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

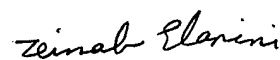
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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Zeinab E. EL-Arini
Primary Examiner
Art Unit 1746

ZEE
01/31/06